

Group Scientific Visit Programme on Advanced Technologies to Strengthen Capabilities of Design, Construction and Operating in Nuclear Power Plants

TENTATIVE AGENDA

Republic of Korea, 27 March – 1 April 2023, Hosted by KHNP		
28 March (Tue.)/Time	Content	Remarks
09:30-10:30	<ul style="list-style-type: none"> Opening Ceremony Introduction to participants Introduction of KHNP and Korean Nuclear Status 	KHNP head office, EVP or VP of KHNP, IAEA
10:30-11:00	Break	
11:00-12:30	<ul style="list-style-type: none"> Design Features of APR 1400 	KHNP
	<ul style="list-style-type: none"> Experiences on Barakah Project (UAE) 	
12:30-13:30	Lunch	
13:30-15:00	<ul style="list-style-type: none"> Moving to Seoul Site 	KHNP
15:00 – 17:00	<ul style="list-style-type: none"> Visiting Seoul 1 &2 (APR-1400) 	
	<ul style="list-style-type: none"> Visiting Construction site 	
Hotel	Busan (One night)	
29 March (Wed.)/Time	Content	Remarks
08:00-10:00	<ul style="list-style-type: none"> Moving to Changwon to visit Doosan Enerbility 	Doosan Enerbility
10:00 - 10:30	<ul style="list-style-type: none"> Presentation on how to manufacture heavy components 	Doosan Enerbility
10:30-12:30	<ul style="list-style-type: none"> Visiting Factory 	
12:30-13:30	Lunch	
13:30-17:30	<ul style="list-style-type: none"> Moving to Daejeon to visit KAERI, NSE and KHNP-CRI (CMIS Developing Company using IT) 	Sightseeing if time is available
Hotel	Daejeon (Two nights)	
30 March (Thu.) /Time	Content	Remarks
09:00-12:30	<ul style="list-style-type: none"> Presentation on Configuration Management using IT, Silkroad 	NSE
	<ul style="list-style-type: none"> KAERI- Thermal Hydraulic or SMR 	KAERI
12:30-13:30	Lunch	
12:30-17:30	<ul style="list-style-type: none"> Visiting KHNP-Central Research Institute 	KHNP-CRI
	<ul style="list-style-type: none"> Digital Twin Technology 	
	<ul style="list-style-type: none"> Virtual Reality Demonstration 	
	<ul style="list-style-type: none"> MMIS Presentation and Demonstration 	
	<ul style="list-style-type: none"> Core Simulator etc. 	
Hotel	Daejeon	
31 March (Fri.) /Time	Content	Remarks
08:00-10:00	<ul style="list-style-type: none"> Visiting KEPCO E&C at Gimcheon 	KEPCO E&C
10:00 - 12:30	<ul style="list-style-type: none"> Advanced Design Tool 	
	<ul style="list-style-type: none"> Building Information Module (BIM) 	
	<ul style="list-style-type: none"> Digital Twin and Computer tool 	
	<ul style="list-style-type: none"> Discussion on the advanced technology to apply newcomers and expanding MSs 	
12:30-13:30	Lunch	
13:30-14:30	<ul style="list-style-type: none"> Internal Meeting to wrap-up the visit 	IAEA
15:00	<ul style="list-style-type: none"> Move to Seoul 	
Hotel	Near Incheon airport	

1 April (Sat) /Time	Content	Remarks
	<ul style="list-style-type: none"> Flying to Wuhan, the People's Republic of China from Incheon airport 	Keep time schedule (stay over a night at the same hotel near airport)

The People's Republic of China, 3 – 7 April 2023, Hosted by CNNC

1 April (Sat.)/Time	Content	Remarks
	Arrival from Seoul Wuhan and Reception	
2 April (Sun.)/Time	Content	Remarks
	Reception (Continued)	Wuhan
3 April (Mon.)/Time	Content	Remarks
09:00-11:00	<ul style="list-style-type: none"> Opening Ceremony Overview of nuclear industry in China Status of Information Technology and its industrial application in China 	Wuhan
11:00-12:00	Technical meeting <ul style="list-style-type: none"> The research of SMR in China and the Linglong One design (Digital Reactor) Open discussion	Wuhan
14:00-17:00	Technical meeting <ul style="list-style-type: none"> Collaborative 3D design and digital handover for HPR1000 Design V&V for HPR1000 Digital management of nuclear power plant construction and installation Open discussion	Wuhan
4 April (Tue.)/Time	Content	Remarks
09:00-10:00	Topical presentation: Challenge and path forward for digital nuclear power plant	Wuhan
10:00-12:00	Interactive discussion among group visitors and experts from Chinese nuclear industry about problems facing by visitors and potential solutions	Wuhan
13:00-21:00	Wuhan to Fuqing by plane	Wuhan-Fuqing
5 April (Wed.) /Time	Content	Remarks
9:00-12:00	<ul style="list-style-type: none"> Site visit of HPR1000 unit 	Fuqing
14:00-17:00	Technical meeting: <ul style="list-style-type: none"> Planning of digital plant for Fuqing NPP Status of digital management and implementation for plant operation and maintenance at Fuqing NPP Open discussion	Fuqing
6 April (Thur.) /Time	Content	Remarks
	<ul style="list-style-type: none"> Fuqing to Wuhan by plane 	Fuqing-Wuhan
	Site visit of CNPO facilities <ul style="list-style-type: none"> Main Control Room simulator development hall 	Wuhan

	<ul style="list-style-type: none"> • In-Service Inspection remote data analysis lab 	
	<ul style="list-style-type: none"> • Open discussion 	
7 April (Fri.) /Time	Content	Remarks
09:00-12:00	Technical meeting: <ul style="list-style-type: none"> • The industrial internet platform of NPP (DHP) • NPP operational digital twin • Intelligent management of Severe Accident for Generation III reactor design 	Wuhan
	Open discussion	
14:00-16:00	Visit & discussion on: <ul style="list-style-type: none"> • Engineering prototype of DHP network platform for nuclear industry • Cyber security laboratory of CNNP 	
16:00 – 17:00	Wrap-up of the SV	
8 April (Sat.) /Time	Content	Remarks
	Departure	Wuhan – Home Country